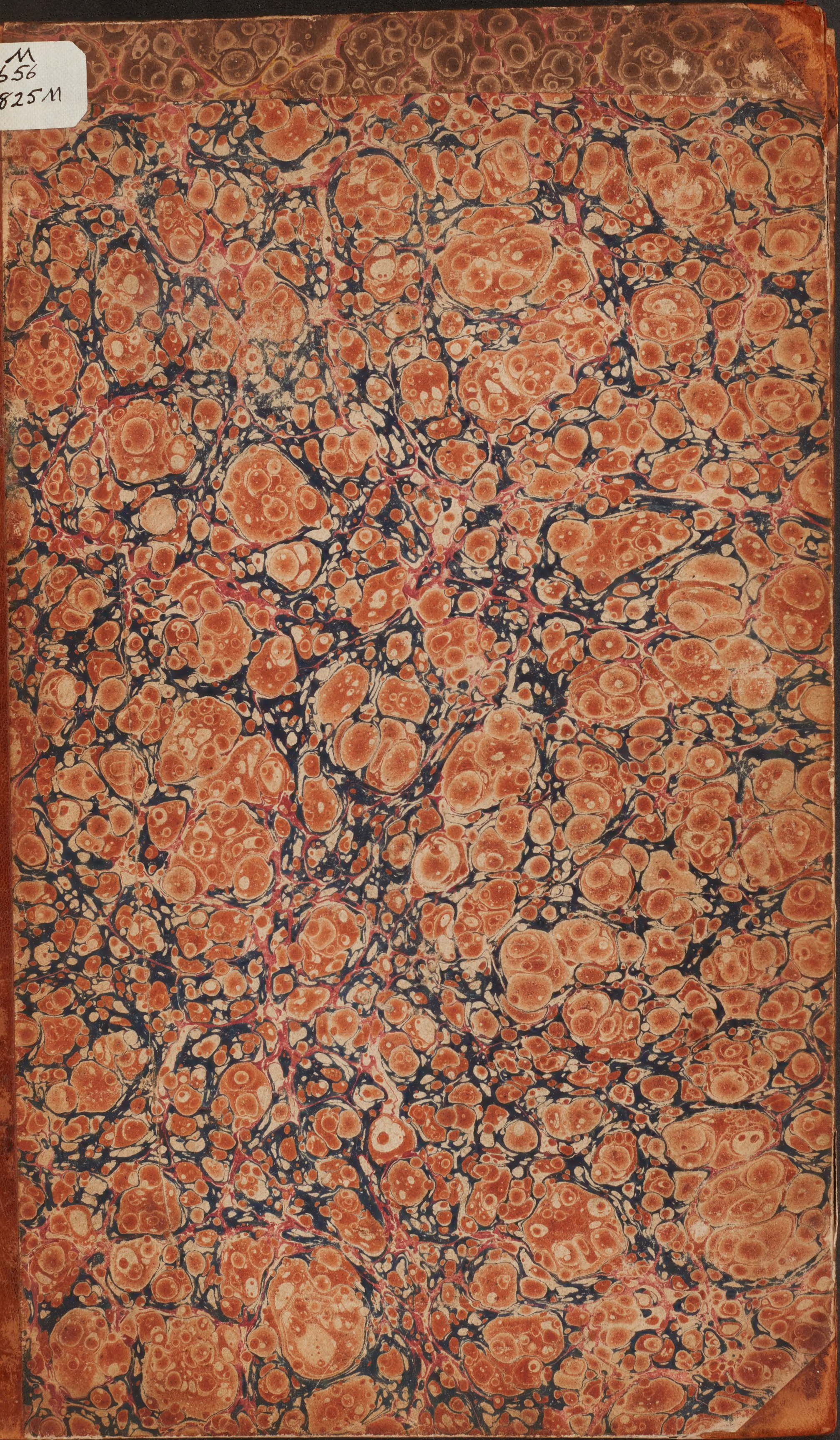


M
656
1825M



288 Days

7/6

The digitization of this logbook
was funded by a gift from the

Pingree Heirs

Phillips Library



from

towards

H.K. | Courses. | Winds. | Lee. | Remarks

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Course. | Dist. | Diff lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob.

H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks

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Course. | Dist. | Diff. Lat. | Dep. | Lat. by D R | Lat. by Ob. | Varia. | Diff. Long | Long in | Long. by Ob

from

towards

H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks

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Journal of a Voyage
from Salem to Para in Brig Baltimore
Commanded by Henry Cowen began
Sept 11th 1831 terminated 1831

Wrote by John B Williams

Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob.

H. | K. | H.K. | Courses | Winds. | Lee. | Remarks

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Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob.

Baltimore from Salem — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|-------------------------------------|
| 1 | | | | | | Commences with light airs |
| 2 | | | | | | from the Westward |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | Middle part moderate and |
| 1 | | | | | | pleasant at 6 A.M. got under way |
| 2 | | | | | | with a light breeze from the |
| 3 | | | | | | N.W. at 12 meridian Bakers |
| 4 | | | | | | Island bore N.W. 3 leagues distance |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | End moderate & pleasant |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------------|--------|------|--------------------------------------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | Begins moderate and pleasant at |
| 5 | 7 | | S. by E. S. W. | | | 9 A.M. Bakers Island bore N.W. 4 |
| 6 | 7 | | | | | leagues distance at 4 do saw Cape |
| 7 | 7 | | | | | Good bearing S. at 8 Cape Good light |
| 8 | 7 | | | | | bore West |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |
| 1 | 7 | | | | | |
| 2 | 7 | | | | | Middle part brisk breeze & pleasant |
| 3 | 7 | | | | | |
| 4 | 7 | | | | | |
| 5 | 7 | | | | | Boat part gentle breeze attended |
| 6 | 7 | | | | | with a thick fog unshackled the |
| 7 | 7 | | | | | anchors and then in board at 4 P.M. |
| 8 | 7 | | | | | do saw a ship standing in the way |
| 9 | 7 | | | | | S. channel. No Obs this day |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | | | | | | |

| Course | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 39 1/2 | 112 | 1-27 | 70 | 41-30 | 39-30 | 2 | 1-34 | 68-19 | |

Baltimore — from Salem — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--|
| 1 | 6 | 2 | S. by E | S.W. | | Commenced with gentle breeze A pleasant weather all day that would draw at 4 P.M. saw 2 Brigs and a Ship standing to the Westward |
| 2 | 6 | | | | | |
| 3 | 6 | 4 | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 5 | | | | | Middle part very moderate & pleasant. set lower standing sails at Daylight saw a Ship standing to the Westward. at 6 do good Ship. at 10 am saw a Brig stand- ing to the Westward at 7 saw a Porpoise on the Starboard bow at 11 quite calm sails shaking latter part wind & weather the same. at 8 observed the Sun to be of a light blue colour with a black Spot near the center |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 4 | 4 | W. by S | | | |
| 12 | 4 | 4 | S.W. | | | |
| 1 | 4 | | | | | |
| 2 | 4 | | | | | |
| 3 | 3 | 2 | S.P.E. | | | S. by E S.W. |
| 4 | 3 | 2 | | | | |
| 5 | 4 | 4 | | | | |
| 6 | 4 | 4 | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | S. by E |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 38. E | 108 | 1-25 | 66 | 39-13 | 39-30 | 2 | 1-25 | 66-54 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--|
| 1 | 3 | 4 | S. by E | S.W. | | Begins with light air and pleasant weather at 4 P.M. Obs the Sun to be of a light blue colour with a black Spot in the center. saw a Brig standing to the north- ward |
| 2 | 3 | | | | | |
| 3 | 4 | 4 | | | | |
| 4 | 4 | 4 | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 3 | | | | | Middle part moderate and hazy at 3 passed a brig standing to the south. at 10 am spoke a French Packet from Havre bound to Phila. full of Passengers at 12 saw a Brig standing to the W.P.W. |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 3 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | S.W. |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 39. E | 105 | 1-21 | 66 | 38-09 | 38-24 | 2 | 1-25 | 65-30 | |

Baltimore from Salem — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------------|--------|------|--|
| 1 | 6 | 4 | P. E. S. P. M. | | | commences fine weather fresh |
| 2 | 6 | 4 | | | | bearers all sail set |
| 3 | 7 | X | | | | |
| 4 | 7 | X | | | | |
| 5 | 7 | X | | | | |
| 6 | 7 | X | | | | |
| 7 | 7 | X | | | | |
| 8 | 7 | X | | West | | Middle part brisk bearers and pleasant |
| 9 | 8 | X | | | | took in lower Studding sail |
| 10 | 8 | X | | | | |
| 11 | 8 | X | | | | |
| 12 | 8 | X | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | X | | | | Butter part Woods and weather |
| 4 | 8 | X | | | | the same. Set lower Studding sail |
| 5 | 8 | X | | | | again |
| 6 | 8 | X | | | | |
| 7 | 8 | X | | | | |
| 8 | 8 | X | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|-----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 39 E | 184 | 2-22 | 116 | 35.48 | 36-09 | 1/2 | 2-34 | 62-56 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|-------|----------------|--------|------|--|
| 1 | 8 | | P. E. S. P. M. | | | Begin with the brisk bearers & pleasant |
| 2 | 8 | | | | | weather at 12 midnight some |
| 3 | 8 | | | | | what squally took in lower and |
| 4 | 8 | 1/2 | | | | by the galant Studding sails Royal. gaff |
| 5 | 7 | 1/2 | | | | Pop sail a 1 set all sail again |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | h | | | | |
| 9 | 7 | h | | | | |
| 10 | 7 | h | | | | |
| 11 | 7 | h | | | | |
| 12 | 7 | | | | | |
| 1 | 7 | 4 | | South | | |
| 2 | 7 | h | | West | | Middle part brisk bearers with |
| 3 | 7 | h | | | | flying clouds |
| 4 | 7 | h | | | | |
| 5 | 7 | h 1/2 | | | | |
| 6 | 7 | h | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |

| Course. | Dist. | Diff Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|-----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 42 E | 180 | 2-13 | 120 | 33.56 | 34.06 | 1/2 | 2-27 | 60.29 | 57.55 |

Baltimore from Salem towards Para

H. K. H.K. Courses Winds Lee Remarks on board Wednesday Aug 17th

| | | | | | | |
|----|---|---|-------|-------|--|---|
| 1 | 7 | 4 | S.P.C | W.P.W | | Comences with fine breeze & pleasant weather set off galant Standing sail |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |
| 1 | 7 | 4 | | | | Middle part Wards and weather continue much the same |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------------------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 28 th | 170 | 2.31 | 80 | 31.35 | 31.36 | 1/2 | 1.36 | 58.53 | |

H. K. H.K. Courses Winds Lee Remarks on board Thursday Aug 18th

| | | | | | | |
|----|---|---|-------|-----|--|---|
| 1 | 7 | 4 | S.P.C | P.W | | Begins with brisk breeze & pleasant weather. all sail set by the Wind 2 1/2 P.M. passed a Ship's Standing to the Eastward |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |
| 1 | 7 | 4 | | | | Middle part much more moderate |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |
| 1 | 7 | 4 | | | | Later part continued |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------------------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 28 th | 128 | 1.53 | 61 | 29.43 | 29.51 | 1/2 | 1.18 | 57.42 | 56.18 |

Batman from Salem towards Para

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|------------------------------|
| 1 | 5 | | PPE | PM | | Beyond moderate and pleasant |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | PPE | PM | | |
| 9 | 4 | 4 | | | | |
| 10 | 4 | 4 | | | | Middle part continued |
| 11 | 4 | 4 | | | | about the same. Saw two |
| 12 | 4 | 4 | | | | Tropic Birds in the By-mast |
| 1 | 5 | | PPE | | | Rigging |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | PM | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | PPE | | | Water part bush bears |
| 9 | 6 | | | | | tree and rather cloudy. Set |
| 10 | 6 | | | | | Topgalant Standing Sail |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P. 30E | 114 | 1-39 | 57 | 28-12 | 28-12 | | 1.06 | 56.36 | 55.12 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---------------------------------|
| 1 | 6 | | PPE | PM | | Commenced with bush bears |
| 2 | 6 | | | | | and pleasant weather |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 4 | 4 | | | | Middle part continued the |
| 8 | 4 | 4 | | | | same. at 8 AM very squally |
| 9 | 3 | | PPE | | | attended with rain and thunder. |
| 10 | 3 | | | | | Thunder. took in fore topmasts |
| 11 | 3 | 4 | PE | | | and topgalant Standing Sail |
| 12 | 3 | 4 | | | | of Royal. at 10 set the Royal |
| 1 | 3 | 4 | PE | | | |
| 2 | 3 | 4 | | | | |
| 3 | 3 | 4 | | | | |
| 4 | 3 | 4 | | | | |
| 5 | 3 | 4 | | | | |
| 6 | 3 | 4 | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | PE | | | Water part quite calm |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P. 38E | 97 | 1.16 | 60 | 26.56 | none | 2 | 1.08 | 54.12 | none |

Baltimore from Talum — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|-----------------|--------|------|----------------------------|
| 1 | | | | Calm | | Commenced with Calm & |
| 2 | | | | | | overcast Weather at 8 PM |
| 3 | | | | | | retched Ship to the S West |
| 4 | 2 | | S. by E. 1/2 E. | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | E. by E. | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | S. by E. 1/2 E. | | | |
| 9 | 3 | 1/2 | | | | |
| 10 | 3 | | | | | |
| 11 | 4 | 1/2 | S. by W. | | | |
| 12 | 4 | 1/2 | | | | Middle part moderate |
| 1 | 4 | 1/2 | | | | with pleasant Weather |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | 1/2 | S. by W. | | | Latter part continued the |
| 9 | 5 | 1/2 | | | | same |
| 10 | 5 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 19 W | 71 | 1-09 | 22 | 25-43 | 25-50 | 1/2 | 2-0 | 57-02 | 57-29 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|-----------------|--------|------|--------------------------------------|
| 1 | 2 | 1/2 | S. by W. 1/2 E. | | | Begins with gentle breeze & pleasant |
| 2 | 4 | 1/2 | S. by W. 1/2 E. | | | and pleasant Weather. |
| 3 | 4 | | | | | |
| 4 | 4 | | | | | |
| 5 | 4 | | South E. by E. | | | |
| 6 | 4 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 4 | | S. by E. 1/2 E. | | | Middle part continued the |
| 11 | 5 | | | | | same |
| 12 | 5 | | S. by E. 1/2 E. | | | |
| 1 | 4 | | | | | |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 4 | | South S. by E. | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | Latter part equally with |
| 7 | 4 | | | | | rain |
| 8 | 4 | | | | | |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 31 W | 103 | 1-36 | 18 | 24-09 | 24-13 | 1/2 | 2-5 | 55-42 | 53-45 |

Baltimore from *Sally* — towards *Sally* —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | 6 | | | | | Begin with gentle breeze, from |
| 2 | 6 | | | | | Weather as soon heavy Squalls |
| 3 | 6 | | | | | look in light sail and royal |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | 4 | | | | Middle part fresh breeze & |
| 11 | 6 | 4 | | | | pleasant weather a 11 set for |
| 12 | 6 | + | | | | royal |
| 1 | 6 | + | | | | |
| 2 | 6 | + | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | + | | | | |
| 5 | 6 | + | | | | Latter part continues the |
| 6 | 6 | 4 | | | | same with strong breeze and |
| 7 | 6 | 4 | | | | light breeze |
| 8 | 6 | + | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| 198 | 143 | 2.13 | 45 | 21.52 | 21.58 | | 49 | 53.4 | 53.45 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|-----------------------------------|
| 1 | 6 | 4 | | | | Commenced with fresh breeze |
| 2 | 6 | 4 | | | | and flying clouds at 4 P.M. |
| 3 | 6 | 4 | | | | |
| 4 | 6 | 4 | | | | |
| 5 | 6 | 4 | | | | Saw an American merchant ship |
| 6 | 6 | 4 | | | | with a large crew of sail running |
| 7 | 6 | 4 | | | | to the westward. from appearance |
| 8 | 6 | 4 | | | | a guineaman Baltimore clipper |
| 9 | 6 | 4 | | | | built. with a large Shearwater |
| 10 | 6 | 4 | | | | forward. |
| 11 | 6 | 4 | | | | |
| 12 | 6 | 4 | | | | |
| 1 | 6 | 4 | | | | |
| 2 | 5 | 4 | | | | |
| 3 | 4 | 4 | | | | |
| 4 | 4 | 4 | | | | |
| 5 | 3 | 4 | | | | Middle part rather squally |
| 6 | 4 | 4 | | | | with rain. look in the royal |
| 7 | 4 | 4 | | | | |
| 8 | 4 | 4 | | | | |
| 9 | 4 | 4 | | | | Latter part pleasant & set |
| 10 | 4 | 4 | | | | royal. |
| 11 | 4 | 4 | | | | |
| 12 | 4 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| 217 | 131 | 2.03 | 37 | 19.49 | 19.57 | | 39 | 54.22 | 54.28 |

Baltimore from *Salem* towards *Spain*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---|
| 1 | 5 | 4 | S. E. | East | | Begins with gentle breezes of pleasant weather. Saw a young young gull. Saw 3 Porpoises on the Starboard bow. |
| 2 | 5 | 4 | | | | |
| 3 | 5 | 4 | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 5 | 4 | | | | |
| 7 | 5 | 4 | | | | |
| 8 | 5 | 4 | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | Middle part with gentle weather continue much the same. |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| 1 | 5 | | S. E. | | | Latter part brisk trades set the Gt. Spruce - W to work making an evening |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 5 | 4 | | | | |
| 10 | 5 | 4 | | | | |
| 11 | 5 | 4 | | | | |
| 12 | 5 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 23 E | 135 | 2-05 | 52 | 17.44 | 17.50 | none | 9-16 | 52.49 | 78.07 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---|
| 1 | 5 | 4 | S. E. | East | | Commences with gentle breezes of pleasant weather all day by the wind. |
| 2 | 5 | 4 | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | 4 | | | | |
| 6 | 6 | 4 | | | | |
| 7 | 6 | 4 | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | 4 | | | | |
| 10 | 7 | 4 | | | | Latter part continues the same at 1.32.25 on the down by distance of the Star Aquilla was found to be 49.50 West. |
| 11 | 6 | 4 | | | | |
| 12 | 7 | 4 | | | | |
| 1 | 6 | 4 | S. E. | | | Latter part brisk trades of pleasant at 7 PM caught a number flying fish that flew into the Spencer |
| 2 | 6 | 4 | | | | |
| 3 | 6 | 4 | | | | |
| 4 | 6 | 4 | | | | |
| 5 | 5 | 4 | | | | |
| 6 | 6 | 4 | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 21 E | 152 | 2-21 | 55 | 15.23 | 15.30 | | 57 | 50.05 | 49.15 |

Baltimore

from

Albany

towards

Para

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---------------------------------------|
| 1 | 7 | | Light | East | | Commenced with gentle breeze & |
| 2 | 7 | | | | | pleasant weather. Saw a number |
| 3 | 7 | | | | | of porpoises to leeward. Not near |
| 4 | 7 | | | | | enough to stick them |
| 5 | 6 | 4 | | | | |
| 6 | 6 | 2 | | | | |
| 7 | 6 | | | | | |
| 8 | 7 | | Light | | | |
| 9 | 6 | 4 | | | | |
| 10 | 6 | 4 | | | | |
| 11 | 6 | 4 | | | | Thunder continued the same |
| 12 | 6 | 2 | Light | East | | at 6 AM sent down royal |
| 1 | 6 | 2 | | | | yard. Royal. Considerable corrugation |
| 2 | 7 | 2 | | | | in one cloth in the sail. at 7 |
| 3 | 6 | | | | | Saw a Brig to leeward. Standing |
| 4 | 7 | | | | | on with us. |
| 5 | 6 | 4 | | | | |
| 6 | 6 | 4 | | | | |
| 7 | 6 | | Light | | | |
| 8 | 6 | | Light | | | |
| 9 | 6 | | Light | | | |
| 10 | 6 | | | | | Later part the Brig is astern about |
| 11 | 5 | | | | | the same distance as in the morning |
| 12 | 5 | | | | | |

| Course. | Dist. | D. R. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| Light | 147 | 2-23 | 35 | 13.05 | 13.15 | none | -56 | 49.29 | 48.07 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---------------------------------------|
| 1 | 4 | 4 | Light | Light | | Commenced with gentle breeze & |
| 2 | 4 | | | | | pleasant weather. The same |
| 3 | 4 | | | | | weather. Saw a ship to leeward |
| 4 | 3 | | | | | at 10 AM. Took ship to the west |
| 5 | 3 | | Light | Light | | ward to the Port of Baltimore |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 2 | 2 | | | | |
| 10 | 2 | 4 | | | | |
| 11 | 2 | 2 | | | | |
| 12 | 2 | 4 | | | | |
| 1 | 3 | | | | | Thunder part moderate with rain |
| 2 | 3 | | | | | sail. Standing. Took in royal & furl |
| 3 | 6 | | Light | | | & lowered the Flag of main sail |
| 4 | 6 | | | | | at 11 Set the Spruce again |
| 5 | 5 | 4 | | | | |
| 6 | 5 | | Light | | | |
| 7 | 5 | | Light | | | Later part fine breeze & clear |
| 8 | 5 | | Light | | | and set. Lightly sail & wind. Saw |
| 9 | 6 | | | | | a large school of porpoises under the |
| 10 | 6 | | | | | bow |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | D. R. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| Light | 104 | 1-12 | 44 | 11-48 | 11-45 | none | -55 | 48.44 | 47-57 |

Baltimore from Palau towards Para

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|-----------------------------------|
| 1 | 6 | h | P. E | East | | inward Augt 29 th |
| 2 | 6 | h | | | | Begins with fine trades of plea- |
| 3 | 7 | | P. E | E | | sure weather all sails set by the |
| 4 | 7 | | | | | wind |
| 5 | 7 | | | | | |
| 6 | 7 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | | P. E | E | | |
| 10 | 7 | | | | | Middle part continued the same |
| 11 | 7 | | | | | work in gaff top sail |
| 12 | 7 | | | | | |
| 1 | 6 | h | | | | |
| 2 | 6 | h | P. E | E | | |
| 3 | 7 | | | | | Latter part light breeze from E |
| 4 | 6 | h | | | | N. E. set ship mast & top galant |
| 5 | 7 | | | | | Studding sails and gaff top sail |
| 6 | 7 | | | | | |
| 7 | 6 | h | | | | |
| 8 | 6 | h | | | | |
| 9 | 6 | h | P. E | | | |
| 10 | 6 | h | | | | Run 7 AM 10.00 north |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P. E | 165 | 2-11 | 94 | 9-37 | 9-30 | 00 | 1-37 | 46-08 | 45-14 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|----------------------------------|
| 1 | 5 | | P. E | E | | outward Augt 30 th |
| 2 | 5 | | | | | Commences with moderate & |
| 3 | 4 | | | | | pleasant weather. Saw large |
| 4 | 4 | | | | | schools of porpoises at 10 am |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | 4 | | | | |
| 9 | 5 | h | | | | |
| 10 | 5 | h | | | | At 10 am tacked ship to the |
| 11 | 5 | h | | | | P. E. at 12 very calm ship's |
| 12 | 5 | h | | | | staying |
| 1 | 5 | | P. E | E | | |
| 2 | 3 | | P. E | E | | |
| 3 | 3 | | P. E | E | | |
| 4 | 3 | | P. E | E | | |
| 5 | 3 | | P. E | E | | |
| 6 | 4 | | | | | Latter part very moderate trade |
| 7 | 3 | | | | | in gaff top sail & royal |
| 8 | 3 | | | | | |
| 9 | 3 | | P. E | E | | |
| 10 | 3 | | P. E | E | | Took a bearing Obs a 9. PM found |
| 11 | 4 | | P. E | E | | to be 44-53 |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P. E | 104 | 1-30 | 24 | 7-57 | 8-22 | 00 | 25 | 46-05 | 44-53 |

Baltimore

from

Palem

towards

Palem

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|----------|------|---|
| 1 | 2 | | P.P.E | Variable | | Commenced with the light air of |
| 2 | 2 | | | | | Variable. large schools of |
| 3 | 2 | | | | | Porpoises playing about the |
| 4 | 2 | | | | | Brig not near enough to strike |
| 5 | 2 | | | | | them |
| 6 | 2 | | | | | |
| 7 | | | Wing | Calm | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | Middle part calm at 7.14.46 |
| 11 | | | | | | 16.5 - 16.14. The ferry by the distance |
| 12 | | | | | | of Sun & Moon was found to be |
| 1 | | | | | | 44-46 West of Greenwich |
| 2 | | | | | | Very clear not a breath of air |
| 3 | | | | | | lowered the mainsail down. |
| 4 | | | | | | Water part moderate & very |
| 5 | | | | | | hot, winds very light. 8.14.46 |
| 6 | | | | | | ships. Schools of small fish round Brig |
| 7 | 2 | | E.P.E | | | |
| 8 | 2 | | | | | |
| 9 | 3 | | | | | |
| 10 | 2 | | | | | |
| 11 | 3 | | | | | |
| 12 | 2 | | | | | |

| Course. | Dist. | Diff. Lat. | D. p. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|-------|---------------|-------------|--------|-------------|-----------|--------------|
| 143.16 | 2.5 | -19 | -18 | 6.45 | 8.27 | 17. | -1.9 | 45.46 | 44.46 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--|
| 1 | 2 | | P.P.E | P.P.W | 00 | Beyond with the light air of very warm |
| 2 | 2 | | P.P.E | P.W | | weather. got the anchors on the beach |
| 3 | 3 | | | | | 7.14.46. Saw large schools of small |
| 4 | 3 | | | | | fish about the Brig caught a |
| 5 | 2 | | | | | number. some of silver color others |
| 6 | 2 | | | | | black. Struck on the back |
| 7 | 2 | | E.P.E | Porta | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | W.P. | S.W | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |
| 1 | 2 | | W.P.W | Porta | | Middle part quite calm. lowered the |
| 2 | 2 | | | | | mainsail of Spencer |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 3 | | | | | Water part passed. Strong tide |
| 6 | 2 | | | | | light weather. much the same. Very |
| 7 | 3 | | | | | calm. (6 hot to sleep in the berths. 6.14.46 |
| 8 | 2 | | | | | a 6.14.46 a to break across the ship |
| 9 | 3 | | P.W. | P.P.E | | making one side the ship a dark case |
| 10 | 4 | | | | | the other side light continued so till |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. Lat. | D. p. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|-------|---------------|-------------|--------|-------------|-----------|--------------|
| 132.49 | -25 | 15 | 6.23 | 7.45 | 17 | -16 | 45.31 | 44.47 | |

down down

Baltimore from Salem — towards Vera —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--|
| 1 | 1 | 4 | PPW | P.E | 10 | Entered and Friday Sept 2 ^d |
| 2 | 1 | 4 | | | | Commenced with light airs & |
| 3 | 1 | 4 | | | | pleasant weather. S. 1/2 W. to work |
| 4 | 1 | 4 | PPW | P.E | | drawing of B. or. |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | Middle part Winds & weather |
| 11 | 2 | | P.P.E | East | | continue the same. no Observation |
| 12 | 2 | | | | | this day — overcast & very hot |
| 1 | 4 | | P.W | P.E | | |
| 2 | 4 | | | | | |
| 3 | 4 | | P.W | P.E | | |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 3 | | P.P.E | P.W | | |
| 7 | 3 | | | | | Later part light airs & raining |
| 8 | 3 | | | | | caught a number small fish |
| 9 | 3 | | | | | at 11 P.M. dined up Jipjane but & |
| 10 | 3 | | | | | headed it aloft |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 15 W | -69 | -58 | 15 | 25.25 | 27. 00 | 10 | -16 | 45.14 | 45.28 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|-----------|--------|------|--|
| 1 | 0 | | At anchor | | 10 | Entered Saturday Sept 3 ^d |
| 2 | " | | | | | Commenced with Calms & very |
| 3 | " | | | | | warm weather. lowered mainsail |
| 4 | " | | | | | J. Spencer. lowered the boat |
| 5 | " | | | | | down & went down round the B. |
| 6 | " | | | | | heated badly. a 5 P.M. saw a large |
| 7 | " | | | | | water spout right ahead. 6 P.M. raised |
| 8 | " | | | | | the mainsail |
| 9 | " | | | | | |
| 10 | " | | | | | |
| 11 | " | | | | | |
| 12 | " | | | | | |
| 1 | " | | | | | |
| 2 | " | | | | | |
| 3 | " | | | | | |
| 4 | " | | | | | Middle part variable wind all |
| 5 | " | | | | | round the compass. in course of |
| 6 | " | | | | | few minutes attended with a heavy |
| 7 | " | | | | | & showers. set mainsail & Spencer |
| 8 | " | | | | | |
| 9 | 3 | | P.W | P.E | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | Later part light breeze & pleasant |
| 12 | 3 | | | | | a 6 P.M. caught a shark with a run |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 34 W | 12 | 11.10 | 11.6 | 06.51 | 06.51 | 10 | 10.06 | 45.08 | 45.34 |

Baltimore — from Salem — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--|
| 1 | | | away | | 10 | Commenced with calm & very warm weather. 8 1/2 AM lowered the boat down & went in pursuit of a land fish upon a line. A light air sprang up from the eastward. |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | 1 | | SE | SE | | |
| 10 | 2 | | SE | SE | | |
| 11 | 3 | | SE | SE | | |
| 12 | 3 | | SE | SE | | |
| 1 | 3 | | SE | SE | | |
| 2 | 3 | | SE | SE | | |
| 3 | 3 | | SE | SE | | |
| 4 | 3 | | SE | SE | | |
| 5 | 3 | | SE | SE | | |
| 6 | 2 | | SE | SE | | |
| 7 | 4 | | SE | SE | | |
| 8 | 5 | | SE | SE | | |
| 9 | 4 | 2 | SE | SE | | |
| 10 | 4 | 2 | SE | SE | | |
| 11 | 4 | 2 | SE | SE | | |
| 12 | 3 | 2 | SE | SE | | |

| Courses | Dist | Diff Lat | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|------|----------|------|---------------|-------------|--------|-------------|-----------|----------------|
| P 20 1/2 | 51 | 11.43 | 15 | 16 18 | 16.16 | 11 | 11.16 | 44.42 | 11.55 45.50 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---|
| 1 | 4 | | SE | SE | | Commenced with fine breeze & pleasant weather |
| 2 | 4 | | SE | SE | | |
| 3 | 4 | | SE | SE | | |
| 4 | 4 | | SE | SE | | |
| 5 | 4 | | SE | SE | | |
| 6 | 4 | | SE | SE | | |
| 7 | 4 | | SE | SE | | |
| 8 | 4 | | SE | SE | | |
| 9 | 4 | 2 | SE | SE | | |
| 10 | 4 | 2 | SE | SE | | |
| 11 | 4 | 2 | SE | SE | | |
| 12 | 4 | 2 | SE | SE | | |
| 1 | 4 | 2 | SE | SE | | |
| 2 | 4 | 2 | SE | SE | | |
| 3 | 4 | 2 | SE | SE | | |
| 4 | 4 | 2 | SE | SE | | |
| 5 | 4 | 2 | SE | SE | | |
| 6 | 4 | 2 | SE | SE | | |
| 7 | 4 | 2 | SE | SE | | |
| 8 | 4 | 2 | SE | SE | | |
| 9 | 4 | 2 | SE | SE | | |
| 10 | 3 | 2 | SE | SE | | |
| 11 | 4 | 2 | SE | SE | | |
| 12 | 4 | 2 | SE | SE | | |

| Courses | Dist | Diff Lat | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|--------|----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| P 17 1/2 | 10 1/2 | 11.41 | 30 | 04.27 | 04.58 | 11 | 11.16 | 44.11 | 46.43 |

With west current after day all over

Baltimore from Salem towards Para

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks |
|----|----|-------|------------------|--------|------|-------------------------------------|
| 1 | 5 | | South E. by E | | 2 | aboard Tuesday Sept 6 th |
| 2 | 5 | | | | 2 | Begin with brisk breeze of |
| 3 | 5 | | | | 2 | pleasant at 5 P.M. passed a |
| 4 | 5 | | | | 2 | very strong tide mark. |
| 5 | 5 | | | | 2 | |
| 6 | 5 | | | | 2 | |
| 7 | 5 | | | | 2 | |
| 8 | 5 | | | | 2 | |
| 9 | 5 | | | | 2 | |
| 10 | 5 | | S. by E. S. by E | | 2 | Middle part brackish weather |
| 11 | 5 | | | | 2 | continue the same attended |
| 12 | 5 | | | | 2 | with a head swell |
| 1 | 3 | | | | 2 | |
| 2 | 3 | | | | 2 | |
| 3 | 3 | | South E. by E | | 2 | |
| 4 | 3 | | | | 2 | |
| 5 | 4 | h | | | 2 | |
| 6 | 4 | h | | | 2 | |
| 7 | 4 | h | S. by E. E. by S | | 2 | Latter part do. a strong brackish |
| 8 | 6 | h | | | 2 | current this 24 hours. but by |
| 9 | 5 | h | | | 2 | acc differs 50 miles from the |
| 10 | 5 | h | | | 2 | but by observation |
| 11 | 5 | h | | | 2 | |
| 12 | 5 | h | | | 2 | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| S. 2 E | 16.3 | 01.08 | -20 | 03.19 | 03.58 | | 01.20 | 44.51 | 45.45 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks |
|----|----|-------|------------------|--------|------|---------------------------------------|
| 1 | 5 | | S. by E. E. by S | | 2 | aboard Wednesday Sept 7 th |
| 2 | 5 | | | | 2 | Begin with brisk breeze of |
| 3 | 5 | | | | 2 | pleasant attend with a head |
| 4 | 5 | | | | 2 | sweet & strong of 2 knots setting |
| 5 | 5 | | South E. by E | | 2 | S. by N. at 1 P.M. took in cargo |
| 6 | 5 | | | | 2 | |
| 7 | 5 | | | | 2 | |
| 8 | 5 | | | | 2 | |
| 9 | 4 | | | | 2 | |
| 10 | 4 | | | | 2 | |
| 11 | 4 | | | | 2 | Middle no alteration. Gales force |
| 12 | 4 | | | | 2 | go adrift but a man up to |
| 1 | 4 | | | | 2 | fix it. |
| 2 | 4 | | | | 2 | |
| 3 | 4 | | | | 2 | |
| 4 | 5 | | | | 1 | |
| 5 | 5 | | S. by E. E. by S | | 1 | |
| 6 | 4 | | | | 1 | |
| 7 | 4 | | | | 1 | Latter part continues the |
| 8 | 5 | | | | 1 | same but by acc differs 40 miles |
| 9 | 5 | | | | 1 | from " of CBS - |
| 10 | 5 | | S. by E. E. by S | | 1 | |
| 11 | 5 | | | | 2 | |
| 12 | 5 | | | | 2 | water these 24 hours much colored |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|-------|---------------|-------------|-------|-------------|-----------|--------------|
| South | 11.1 | 01.11 | 01.00 | 02.08 | 02.42 | 05 | 01.00 | 44.51 | 47.03 |

Baltimore from Salem towards Para

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|------------------------------|
| 1 | 5 | 4 | P.P.E. | East | 3 | Commences with brisk breeze |
| 2 | 5 | 4 | | | 3 | & pleasant weather attended |
| 3 | 5 | 4 | | | 3 | with a head swell & strong |
| 4 | 5 | 4 | | | 3 | current, as we at 6 am found |
| 5 | 5 | 4 | | | 3 | have the lead and found no |
| 6 | 5 | 4 | | | 3 | bottom. |
| 7 | 5 | 4 | | | 3 | Middle part continues much |
| 8 | 5 | 4 | P.P.E. | East | 3 | the same judges this strong |
| 9 | 6 | | | | 3 | current to set us to |
| 10 | 6 | | | | 2 | Latter part brisk breeze |
| 11 | 6 | | | | 2 | and overcast continues a |
| 12 | 6 | | | | 2 | strong N. N. W. current beat |
| 1 | 6 | | | | 2 | by 6 1/2 miles from bar |
| 2 | 6 | | | | 2 | if acc |
| 3 | 6 | | | | 2 | |
| 4 | 6 | | | | 2 | |
| 5 | 6 | | | | 2 | |
| 6 | 6 | | | | 2 | |
| 7 | 7 | | | | 3 | |
| 8 | 7 | | | | 3 | |
| 9 | 6 | | | | 3 | |
| 10 | 6 | | | | 3 | |
| 11 | 6 | | | | 3 | |
| 12 | 6 | | | | 2 | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| P.P.E. | 123 | 01.00 | 17 | 41.08 | 41.13 | 05 | 11.17 | 44.47 | 46.47 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--------------------------------------|
| 1 | 6 | | P.P.E. | East | | Commences with brisk breeze |
| 2 | 6 | | | | | and pleasant weather. Close |
| 3 | 6 | | | | | hailed by the wind at 4 P.M. |
| 4 | 6 | | P.P.E. | East | | Sounded in 30 fathoms fine |
| 5 | 6 | | | | | gray sand, at 5 do. Shattered |
| 6 | 6 | | | | | both chain cables to the anchor |
| 7 | 6 | | P.P.E. | East | | at 8 do. Sounded in 25 fath |
| 8 | 6 | | | | | at 9 do. took in the fore topgallant |
| 9 | 6 | | | | | sail for the first time since |
| 10 | 6 | | | | | we left Salem a 9 do. hauled |
| 11 | 6 | | | | | up the fore sail. Strong breeze |
| 12 | 6 | | | | | Sudden part. wind increasing |
| 1 | 3 | | | | | Sounded every hour in from 20 |
| 2 | 3 | | | | | fath at 5 do. set the fore sail. |
| 3 | 3 | | | | | Latter part at 10 do. saw the land |
| 4 | 3 | | | | | bearing P.P.E. 5 do. N. W. at River |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| | | | | | 00.37 | | | | |

Land bore from South to N
Long by obs this day 44.57.

The Land we made in Long 144.57 was Costa

Baltimore — from Salem — towards Para —

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---|
| 1 | 2 | | W. N. E. | | | inward Saturday Sept 10 |
| 2 | 7 | | barren | | | Begin with fresh breeze & pleasant |
| 3 | 7 | | courses | | | weather at 6 P. M. took in the |
| 4 | 7 | | running | | | Sail & top of sail & laying of |
| 5 | 7 | | down the | | | of all night at 11 am. Hall |
| 6 | 7 | | coast | | | ed for the land (first land we |
| 7 | 3 | | N. N. E. | | | Sail was again |
| 8 | 3 | | P. E. | | | Middle Commences with |
| 9 | 3 | | South | | | pleasant weather at daylight |
| 10 | 3 | | P. E. | | | bore away & set foresail & set |
| 11 | 3 | | P. E. | | | top of sail at 7 am. J. L. L. |
| 12 | 3 | | N. W. | | | bearing N. W. at 9 bore South. This place |
| 1 | 3 | | N. W. | | | will have a different appearance |
| 2 | 3 | | N. W. | | | from the other land rather higher |
| 3 | 3 | | N. W. | | | up to a long sandy beach near the sea |
| 4 | 3 | | N. W. | | | shore the town is just beyond the |
| 5 | 3 | | N. W. | | | end in the low with a large char |
| 6 | 6 | | N. W. | | | in the center one in civil act |
| 7 | 6 | | N. W. | | | Saw Braganza Shoals W. & N. at 11 |
| 8 | 6 | | N. W. | | | past 2 past them at 2.34.8 the bearing |
| 9 | 6 | | N. W. | | | the dist of Sun & moon was 47.32.8 |
| 10 | 6 | | N. W. | | | which agrees within 2 mile of Braganza |
| 11 | 6 | | N. W. | | | breakers at 7 do come to low Braganza |
| 12 | 6 | | N. W. | | | breakers of water. (mud) anchor in 7 |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | 147.32 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|---|--------|------|----------------------------------|
| 1 | 2 | | at 12. meridiana. Spotter Braganza. Lian. | | | Sunday Sept 11 |
| 2 | 7 | | Long tale of 50k at anchor in | | | Commences fine breeze from |
| 3 | 7 | | the bay de do C at 11 do equally | | | East at 7 am got under way. |
| 4 | 7 | | at 11 do equally | | | I stood up the river, or |
| 5 | 7 | | at 11 do equally | | | rather low land full of |
| 6 | 7 | | at 11 do equally | | | trees now and then a small |
| 7 | 7 | | at 11 do equally | | | indian but some some |
| 8 | 7 | | at 11 do equally | | | of the very neat the land |
| 9 | 7 | | at 11 do equally | | | appears the same along the |
| 10 | 7 | | at 11 do equally | | | coast & up the river very |
| 11 | 7 | | at 11 do equally | | | blind place for a strong |
| 12 | 7 | | at 11 do equally | | | especially by the Braganza |
| 1 | 7 | | at 11 do equally | | | breakers which do in 47.30.00 |
| 2 | 7 | | at 11 do equally | | | here it tide rises and falls |
| 3 | 7 | | at 11 do equally | | | about 24 feet after leaving them |
| 4 | 7 | | at 11 do equally | | | keep the shore on the starboard |
| 5 | 7 | | at 11 do equally | | | hand aboard & shows some |
| 6 | 7 | | at 11 do equally | | | place very high all the way |
| 7 | 7 | | at 11 do equally | | | up |

| Course | Dist. | Diff. lat | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------|-------|-----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

at 8 got underway. Para in sight bearing 144 W. 10 miles dist

towards *Para*

| No. | K | H.K. | Courses. | Winds. | Lee. | Remarks |
|-----|---|------|----------|--------|------|-----------------------------|
| 1 | | | | | | Monday Sep 12 th |
| 2 | | | | | | arrived and anchored |
| 3 | | | | | | some dist from shore |
| 4 | | | | | | at 5 P.M. flood in and |
| 5 | | | | | | anchored near the Custom |
| 6 | | | | | | House End of Lewis and |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

[illegible]

Baltimore from Para towards Patani

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks |
|----|----|-------|----------|--------|------|-------------------------------------|
| 1 | | | | | | Subson Monday 17th |
| 2 | | | | | | Begins for the moderate of pleasant |
| 3 | | | | | | weather we can proceed |
| 4 | | | | | | ships as we get enough of |
| 5 | | | | | | turned down the river at |
| 6 | | | | | | 4 came to anchor in Sebastian's |
| 7 | | | | | | Bay in 5 fathoms water as |
| 8 | | | | | | we got under weigh & |
| 9 | | | | | | turned down the river and |
| 10 | | | | | | Pleasant |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

[illegible]

| H. | K. | H.K. | Courses | Winds. | Lee. | Remarks |
|----|----|------|---------|--------|------|--------------------------------|
| 1 | | | | | | Commenced with Brist |
| 2 | | | | | | for Leases of pleasant weather |
| 3 | | | | | | at 3 1/2 M. Came to anchor |
| 4 | | | | | | of day. He got in 9 fathoms |
| 5 | | | | | | water at 10 do. got under |
| 6 | | | | | | weigh and turned down |
| 7 | | | | | | the river at 12 M. ed |
| 8 | | | | | | to anchor 10 miles above |
| 9 | | | | | | Snipe ponds fresh water |
| 10 | | | | | | from the north |
| 11 | | | | | | |
| 12 | | | | | | |

[illegible]

Palermo

Remarks On board Wednesday
commenced with fresh breezes
from N. E. attended with
pleasant weather at 9 AM
got underweigh & turned
down the river at 2 PM
came to anchor in 5 fathoms
water Cape bearing 100
S. E. 10 miles distance. A
low sand bank bearing E. N. E.
5 miles distance

Was pleasant & fresh
breeze

[illegible]

Remarks on board Thursday 20th.
Breeze with strong breeze
of pleasant weather at 9
P.M. got under weigh of
Stood to Sea. Sounded in
furn 3 to 10 fathoms water
going on
Latter part winds of the water
continue the same a fair
set for the top gallant sail
Latter part no alteration

| | | | | | | | | |
|-------|----|-------|----|-------|-------|----|----|------|
| North | 95 | 01.35 | 00 | 00.58 | 01.04 | 00 | 00 | 4.40 |
|-------|----|-------|----|-------|-------|----|----|------|

Baltimore from *Pulaski* towards *Sabon*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--------------------------------------|
| 1 | 8 | 4 | N by W | East | | On board Monday Oct 21 st |
| 2 | 8 | 4 | | | | Commenced with fine |
| 3 | 8 | 4 | | | | trades & pleasant weather |
| 4 | 8 | 4 | | | | at 3 P.M. set fore top sail |
| 5 | 8 | 4 | | | | royal & fore topmast |
| 6 | 8 | 4 | | | | standing sail |
| 7 | 8 | 4 | | | | |
| 8 | 8 | 4 | | | | |
| 9 | 8 | 4 | | | | |
| 10 | 8 | 4 | | | | |
| 11 | 8 | 4 | | | | Middle part continued |
| 12 | 8 | 4 | | | | the same |
| 1 | 8 | 2 | | | | |
| 2 | 8 | 2 | | | | |
| 3 | 8 | 2 | | | | |
| 4 | 8 | 2 | | | | |
| 5 | 8 | 2 | | | | |
| 6 | 8 | 2 | | | | Latter part do |
| 7 | 8 | 2 | | | | |
| 8 | 8 | 2 | | | | |
| 9 | 8 | 2 | | | | |
| 10 | 8 | 2 | | | | |
| 11 | 8 | 2 | | | | |
| 12 | 8 | 2 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| N by W | 204 | 03.20 | 39 | 04.18 | 04.27 | 05 | 00.40 | 48.20 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|------------------------------------|
| 1 | 7 | 4 | N by W | East | | On board Saturday 22 nd |
| 2 | 7 | 4 | | | | Begins with fine breeze |
| 3 | 7 | 4 | | | | & pleasant. When the sun |
| 4 | 7 | 4 | | | | played in mating shoes |
| 5 | 7 | 4 | | | | at 5 set top gallant & lower |
| 6 | 7 | 4 | | | | standing sails. |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | Middle part rather moderate |
| 12 | 7 | 4 | | | | attended with a head sail |
| 1 | 7 | 2 | | | | |
| 2 | 7 | 2 | | | | |
| 3 | 7 | 2 | | | | |
| 4 | 7 | 2 | | | | |
| 5 | 6 | 4 | | | | |
| 6 | 6 | 4 | | | | Latter part continues |
| 7 | 6 | 4 | | | | the same. obs. large shoals |
| 8 | 6 | 4 | | | | of Porpoises & flying fish |
| 9 | 6 | 4 | | | | |
| 10 | 6 | 4 | | | | |
| 11 | 6 | 4 | | | | |
| 12 | 6 | 4 | | | | |

| Course | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|--------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| N by W | 172 | 02.48 | 32 | 07.16 | 07.20 | 00 | 00.33 | 48.53 | |

Baltimore from Para towards Salem

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 5 | | By N | ESE | | Commences with moderate |
| 2 | 5 | | | | | Spring warm weather at 8 |
| 3 | 4 | | | | | PM look in Shudding Sails |
| 4 | 5 | | | SE | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | By N | SE | | |
| 9 | 5 | | | | | |
| 10 | 6 | | | | | Middle part fresh breezes |
| 11 | 6 | | | | | & pleasant |
| 12 | 6 | | | | | |
| 1 | 6 | | | | | |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | Heater part quite moderate |
| 7 | 6 | | | | | See Log of Sails |
| 8 | 6 | | | | | |
| 9 | 6 | | By N | ESE | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 25 W | 128 | 01.53 | 52 | 09.09 | 08.48 | 10 | 00.53 | 11.13 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|----------|------|-------------------------------|
| 1 | 6 | | By N | East | | Commences with fine breeze |
| 2 | 6 | | | | | & pleasant at 4 PM See |
| 3 | 6 | | | | | Log of Sails Shudding Sails |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | SE | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | Middle part Squally attended |
| 12 | 6 | | | | | with a light shower of rain |
| 1 | 6 | | By N | Variable | | At a large flock of birds on |
| 2 | 6 | | | | | the weather fair |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 7 | | | | | |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | Heater part fine breeze |
| 8 | 8 | | | | | at 4 PM |
| 9 | 8 | | | | | got the anchors on the bottom |
| 10 | 8 | | | | | & chains below |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 44 W | 144 | 02.28 | 57 | 11.37 | 11.10 | 10 | 01.58 | 11.20 | |

Baltimore from Vera towards Lima

| H. | K. | H.K. | Courses | Winds. | Lee. | Remarks |
|----|----|------|---------|----------|------|-----------------------------------|
| 1 | 4 | | h by h | variable | | commenced with moderate f. |
| 2 | 4 | | | | | breases attended with squalls of |
| 3 | 4 | | | | | rain |
| 4 | 4 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | h by h | h by h | | |
| 8 | 3 | | | | | |
| 9 | 3 | | h by h | h by h | | |
| 10 | 3 | | | | | |
| 11 | 3 | | h by h | h by h | | Middle part calm & in fore |
| 12 | 3 | | | | | top sails & studding sails. lower |
| 1 | 3 | | | | | ed down the mainsail & span |
| 2 | 3 | | | | | attended with a head sea |
| 3 | 3 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | Lower part not a breath of |
| 10 | 2 | | | | | air |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 16.11 | 67 | 21.59 | 17 | 12.36 | 12.00 | 00 | 21.18 | 51.09 | |

| H. | K. | H.K. | Courses | Winds. | Lee. | Remarks |
|----|----|------|---------|--------|------|-------------------------------|
| 1 | 4 | | h by h | South | | Commenced with moderate |
| 2 | 4 | | | | | breases of some what squalls |
| 3 | 5 | | h by h | h by h | | took in top gallant & lower |
| 4 | 5 | | | | | studding sails |
| 5 | 8 | | h by h | | | |
| 6 | 8 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | Middle part fine breases |
| 12 | 6 | | | | | some what cloudy set the |
| 1 | 4 | h | | | | lower & top gallant studding |
| 2 | 4 | h | | | | sails. heavy sea on of a fine |
| 3 | 4 | h | | | | firey appearance. 8.31 12 |
| 4 | 4 | h | | | | am the longitude by distance |
| 5 | 6 | | | | | of sun & moon was found to be |
| 6 | 6 | | | | | 51.14 west of greenwich |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 4 | h | | | | Lower part the same |
| 11 | 4 | h | | | | |
| 12 | 4 | h | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 15.11 | 143 | 02.18 | 27 | 14.54 | 14.06 | 00 | 00.28 | 50.37 | 51.14 |

Patterson from *Para* towards *Salina*

| H. | K. | H.K. | Courses | Winds. | Lee. | Remarks |
|----|----|------|---------|--------|------|-------------------------------|
| 1 | 3 | 4 | light | W | | Commenced with moderate |
| 2 | 3 | 4 | | | | breezes attended in the heavy |
| 3 | 3 | | | | | showers of rain set shading |
| 4 | 4 | | light | W | | Sails & Gaff topsail |
| 5 | 5 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | Middle part heavy squalls |
| 11 | 8 | | | | | & some what cloudy |
| 12 | 8 | | | | | Sails & Gaff topsail |
| 1 | 9 | 4 | | | | clued up top gallant sail |
| 2 | 9 | 4 | | | | |
| 3 | 9 | 4 | | | | |
| 4 | 9 | 4 | | | | |
| 5 | 9 | 2 | | | | |
| 6 | 10 | 4 | | | | |
| 7 | 10 | 4 | | | | Latter part continues same |
| 8 | 10 | | | | | The same. at 8.35. a bearing |
| 9 | 9 | | | | | by dist of Sun & moon was |
| 10 | 9 | | | | | found to be 55.37 |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |

| Course. | Dist. | D. lat | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|--------|------|---------------|-------------|------|-------------|-----------|--------------|
| N 31 W | 185 | 02.36 | 92 | 24.07 | 21.02 | 3/4 | 01.39 | 53.4 | 55.37 |

| H. | K. | H.K. | Courses | Winds. | Lee. | Remarks |
|----|----|------|---------|--------|------|----------------------------|
| 1 | 7 | 4 | light | W | | commenced with fresh |
| 2 | 7 | 4 | | | | breeze & pleasant weather |
| 3 | 7 | 4 | | | | all sail set that would |
| 4 | 7 | 4 | | | | draw |
| 5 | 7 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 7 | 4 | | | | |
| 9 | 7 | 4 | | | | Middle part squally |
| 10 | 7 | 4 | | | | made and shot down |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |
| 1 | 7 | 4 | light | W | | |
| 2 | 7 | 4 | | | | |
| 3 | 7 | 4 | | | | |
| 4 | 7 | 4 | | | | |
| 5 | 7 | 4 | light | W | | |
| 6 | 7 | 4 | | | | Latter part heavy squalls |
| 7 | 7 | 4 | | | | from N.E. lowered main |
| 8 | 7 | 4 | | | | sail down & clued up top |
| 9 | 7 | 4 | | | | gallant sail |
| 10 | 7 | 4 | | | | |
| 11 | 6 | 4 | | | | However Obs this day 56.42 |
| 12 | 6 | 4 | | | | |

| Course. | Dist. | D. lat | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|--------|------|---------------|-------------|------|-------------|-----------|--------------|
| N 27 W | 197 | 02.54 | 88 | 24.01 | 23.46 | 1 | 01.36 | 55.24 | 56.42 |

Baltimore from Para towards Salem

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | 6 | | | | | commences with light breeze |
| 2 | 6 | | | | | & pleasant all sail set to |
| 3 | 6 | | | | | the best advantage |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | Middle part continues the same |
| 12 | 5 | | | | | at 10 the 25.22 the long |
| 1 | 5 | | | | | by distance of Sun from |
| 2 | 5 | | | | | was found to be 57.48 |
| 3 | 6 | | | | | West |
| 4 | 6 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | Weather moderate all the |
| 10 | 5 | | | | | employed in scraping & |
| 11 | 5 | | | | | varnishing deck |
| 12 | 5 | | | | | |

| Course | Dist | Diff lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------|------|-----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 24 W | 130 | 01.58 | 52 | 25.39 | 25.57 | 3/4 | 00.58 | 56.15 | 57.48 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|-----------------------------|
| 1 | 5 | | | | | Commences with light breeze |
| 2 | 5 | | | | | & pleasant weather all the |
| 3 | 5 | | | | | with a light swell from |
| 4 | 5 | | | | | the eastward |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | Middle part continues the |
| 1 | 5 | | | | | same all sail set that |
| 2 | 5 | | | | | would draw |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | Weather part no alter |
| 11 | 5 | | | | | ation |
| 12 | 5 | | | | | |

| Course | Dist | Diff Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------|------|-----------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 16 W | 133 | 02.07 | 36 | 28.06 | 28.05 | 1/2 | 00.41 | 57.29 | 58.29 |

N 22 W 133 07.02 30 28.01 28.05 1/2 57 57.15 58.45

Baltimore from Para — towards Patuxent

| U. | K. | H. K. | Courses. | Winds. | Lee. | Remarks |
|----|----|-------|----------|--------|------|-----------------------------------|
| 1 | 5 | | | | | Under way Nov 2 ^d 1851 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| H. | K | H.K | Coarces | ids. | Lee. | Remarks |
|----|---|-----|---------|------|------|---|
| 1 | 5 | | | | | Commences with moderate |
| 2 | 5 | | | | | S. pleasant weather |
| 3 | 5 | | | | | Sail advantageously |
| 4 | 5 | | | | | displayed |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | Middle part winds and |
| 11 | 5 | | | | | weather continue the same |
| 12 | 5 | | | | | at 6 A.M. sent ^{yard} Royal mast |
| 1 | 5 | | | | | S. top gallant Studding sail |
| 2 | 5 | | | | | down |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | Lower part heavy squall from |
| 9 | 5 | | | | | S. P. H. attended with rain |
| 10 | 5 | | | | | took in all sail except foremast |
| 11 | 5 | | | | | Setled fore top sail alone |
| 12 | 5 | | | | | The ship at 11 saw a ship |

Standing N. N. W. at 11 Sec. 34
again, ends calm

Baltimore from Para towards Palom

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks |
|--|----|-------|----------|----------|-------|-----------------------|
| 1 | 4 | | N by W | W | South | Commences with light |
| 2 | 4 | | | | | air & squally looking |
| 3 | 3 | | | | | weather attended with |
| 4 | 2 | | | | | heavy showers of rain |
| 5 | 4 | | | | | |
| 6 | 4 | | | Variable | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | Middle part Calm & |
| 11 | 3 | | | | | very warm |
| 12 | 3 | | | | | |
| 1 | 2 | | N. N. E | N. W | | |
| 2 | 2 | | | | | |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | E. N. E | North | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | N by W | W | rain | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |
| <p>Later part continues The same lower main sail and spruce down</p> | | | | | | |

| Course | Dist | Diff lat | Dep. | Lat by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|--------|------|----------|------|--------------|-------------|--------|-------------|----------|--------------|
| N 12 W | 63 | 00.54 | 11 | 32.36 | 32.27 | N | 01.13 | 59.13 | 60.43 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks |
|--|----|-------|----------|--------|-------|--------------------------|
| 1 | 2 | | N by W | W | varia | Commences with very warm |
| 2 | 1 | | | | | & calm at 4 P M caught |
| 3 | 1 | | | | | a large Shark |
| 4 | | | | | | |
| 5 | | | | Calam | | |
| 6 | 2 | | N by W | W | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | N by W | W | varia | |
| 12 | 2 | | | | | |
| 1 | 2 | | | | | Middle continues the |
| 2 | 2 | | | | | same with a head swell |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 3 | | | | | |
| 6 | 2 | | | | | |
| 7 | 3 | | | | | |
| 8 | 4 | | | | | |
| 9 | 5 | | N. W | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| <p>Later part squally attended with rain took in top gallies sail & lowered down main sail ends rough sea & rain</p> | | | | | | |

| Course | Dist | Diff lat | Dep. | Lat by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|--------|------|----------|------|--------------|-------------|--------|-------------|----------|--------------|
| N 12 W | 59 | 00.42 | 58 | 33.18 | 33.07 | N | 01.45 | 59.58 | 61.28 |

Baltimore from Para towards Palmar

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|---------------|------|--|
| 1 | 6 | 4 | N by W | W by N E by S | | on board Sunday Nov 6 th |
| 2 | 6 | 4 | | | | Commences with brisk breezes |
| 3 | 6 | 4 | | | | & cloudy weather at 4 P.M. |
| 4 | 7 | 4 | | | | Set off 1 st mast Studding sail |
| 5 | 6 | 4 | | | | |
| 6 | 7 | 4 | | | | |
| 7 | 6 | 4 | | | | |
| 8 | 5 | 4 | | | | |
| 9 | 4 | 4 | | | | |
| 10 | 3 | 4 | | | | Middle part calm & pleasant |
| 11 | 3 | 4 | | | | at 4 am light breeze from |
| 12 | 2 | 4 | | | | the northward to in the |
| 1 | | | N by W | Calm | | Studding sails |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | 2 | 4 | E by S | North | | Latter part moderate |
| 6 | 2 | 4 | | | | pleasant a 10 passed some |
| 7 | 3 | 4 | | | | timber. at 12 noon saw |
| 8 | 3 | 4 | | | | a chest to leeward & bore away |
| 9 | 4 | 4 | N by W | N by E | | for it. found it to be a Spanish |
| 10 | 4 | 4 | | | | chest from appearance had |
| 11 | 4 | 4 | | | | been in the water but short time |
| 12 | 4 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 25 W | 89 | 01.13 | 34 | 34.31 | 34.36 | 2 | 05.41 | 60.39 | 62.19 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|-------------------------------------|
| 1 | 5 | | N by W | N by E | | on board Monday Nov 7 th |
| 2 | 4 | 4 | | | | Commences with moderate |
| 3 | 4 | 4 | | | | & pleasant weather at anchor |
| 4 | 4 | 4 | | | | led with a very smooth |
| 5 | 4 | 4 | | | | sea |
| 6 | 5 | 4 | | | | |
| 7 | 5 | 4 | | | | |
| 8 | 5 | 4 | | | | |
| 9 | 6 | 4 | | | | |
| 10 | 6 | 4 | | | | |
| 11 | 6 | 4 | | | | Middle part heavy squalls |
| 12 | 6 | 4 | | | | & rainy. from N. E. sent down |
| 1 | 6 | 4 | N by W | N by E | | main topmast. |
| 2 | 6 | 4 | | | | |
| 3 | 6 | 4 | | | | |
| 4 | 6 | 4 | | | | |
| 5 | 7 | 4 | N by W | N by E | | |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | Latter part wind increasing |
| 8 | 7 | 4 | | | | ing took in 10 furlongs |
| 9 | 7 | 4 | | | | Sail & 3 reefs in mainmast |
| 10 | 7 | 4 | | | | |
| 11 | 7 | 4 | | | | |
| 12 | 7 | 4 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 31 W | 144 | 02.08 | 73 | 36.31 | none | 2 | 01.44 | 62.23 | 64.03 |

Baltimore from Para towards Lima

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 7 | | | | | Commences with a gale |
| 2 | 7 | | | | | from N N W part S. |
| 3 | 7 | | | | | sets on main sail. & don't |
| 4 | 7 | | | | | pull the fore top sail |
| 5 | 7 | | | | | hook in fore sail |
| 6 | 7 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 6 | | | | | Middle part continues |
| 12 | 6 | | | | | the same with a high |
| 1 | 6 | | | | | sea on |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|-------|-----------|-------|---------------|-------------|--------|-------------|-----------|--------------|
| N 53 W 139 | 01.16 | 103 | 37.47 | none | N | 02.09 | 64.32 | 66.42 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|--------|------|---------------------------|
| 1 | 4 | | | | | Moderates a little with |
| 2 | 4 | | | | | a (high) sea on & flying |
| 3 | 4 | | | | | clouds at 11 P.M. Saw a |
| 4 | 4 | | | | | Brig standing to westward |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | 2 | |
| 10 | 3 | | | | 2 | |
| 11 | 3 | | | | 2 | Middle part more moderate |
| 12 | 3 | | | | 2 | Saw a Brig standing on |
| 1 | 3 | | | | 2 | with us |
| 2 | 3 | | | | 2 | |
| 3 | 3 | | | | 2 | |
| 4 | 3 | | | | 2 | |
| 5 | 4 | | | | 2 | |
| 6 | 4 | | | | 2 | |
| 7 | 4 | | | | 2 | |
| 8 | 4 | | | | 2 | |
| 9 | 4 | | | | 2 | |
| 10 | 4 | | | | 2 | |
| 11 | 4 | | | | 2 | |
| 12 | 4 | | | | 2 | |

| Course | Dist. | Diff Lat. | Dep | Lat. by D R | Lat. by Ob. | Varia. | Diff. Long. | Long in. | Long. by Ob. |
|-----------|-------|-----------|-------|-------------|-------------|--------|-------------|----------|--------------|
| N 63 W 64 | 01.01 | 117 | 38.16 | 38.12 | N | 01.47 | 65.79 | 67.59 | |

Baltimore from Para towards Palmyra

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|---------|------|--------------------------------|
| 1 | 4 | | N 25 W | W 1/2 N | | Commences with moderate |
| 2 | 4 | | | | | S. pleasant weather at 2.25.10 |
| 3 | 4 | | | | | The day by the disc of sun |
| 4 | 4 | | | | | S. Moon was found to be |
| 5 | 4 | | | | | 69.30 miles |
| 6 | 4 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | | | | | | |
| 10 | | | | W 1/2 S | | |
| 11 | | | | | | Middle part Calm & pleasant |
| 12 | | | | | | at 5 AM at light breeze |
| 1 | 1 | | N 25 W | W 1/2 N | | Spring up from the boat |
| 2 | 1 | | | | | at 10 do passed a large man |
| 3 | 2 | | | | | boat with the rigging attached |
| 4 | 2 | | | | | to it |
| 5 | 4 | | N 25 E | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | Boat passed a large |
| 9 | 6 | | N 25 E | | | Ship under short sail |
| 10 | 6 | | | | | to the NW |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| N 25 W | 77 | 11.55 | 26 | 39.11 | 38.58 | 2 | 00.33 | 68.32 | 68.32 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks |
|----|----|------|----------|---------|------|--|
| 1 | 6 | 4 | N 25 E | W 1/2 E | | Commences with fine breeze |
| 2 | 6 | 4 | N 25 E | | | S. pleasant weather |
| 3 | 6 | 4 | | | | Up mast studding sail |
| 4 | 6 | 4 | | | | |
| 5 | 6 | 4 | | | | |
| 6 | 6 | 4 | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | N 25 E | | | |
| 9 | 7 | 4 | | | | |
| 10 | 7 | 4 | | | | Middle part fine breeze |
| 11 | 7 | 4 | | | | S. Hazy Sounded in 53 fathoms |
| 12 | 7 | 2 | | | | mod. S. Black Sand at 2 do 47 |
| 1 | 7 | 2 | | | | fathoms black & white sand |
| 2 | 7 | 4 | | | | at do 30 fathoms gray sand |
| 3 | 7 | 4 | N 25 E | | | at 8 do 17 fathoms rocks & g. |
| 4 | 7 | 4 | | | | at 9 do 14 " " |
| 5 | 7 | 4 | | | | at 10 do 35 fathoms stones sand & shells |
| 6 | 7 | 4 | | | | |
| 7 | 7 | 4 | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | N 25 E | | | Boat part with rain |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| N 38 E | 170 | 02.03 | 95 | 41.14 | 41.30 | 2 | 02.04 | 68.56 | 70.56 |

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| No. | K | H.K. | Courses. | Winds. | Lee. | Remarks |
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| H. | K. | H. K. | Courses | Winds. | Lee | Remarks |
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Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob.

H. | K | H.K. | Courses. | Winds. | Lee. | Remarks

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| Course | Dist | Diff Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in | Long. by Ob. |
|--------|------|-----------|------|---------------|-------------|--------|-------------|----------|--------------|
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| 11. | K. | 11.K. | Courses. | Winds. | Lee. | Remarks |
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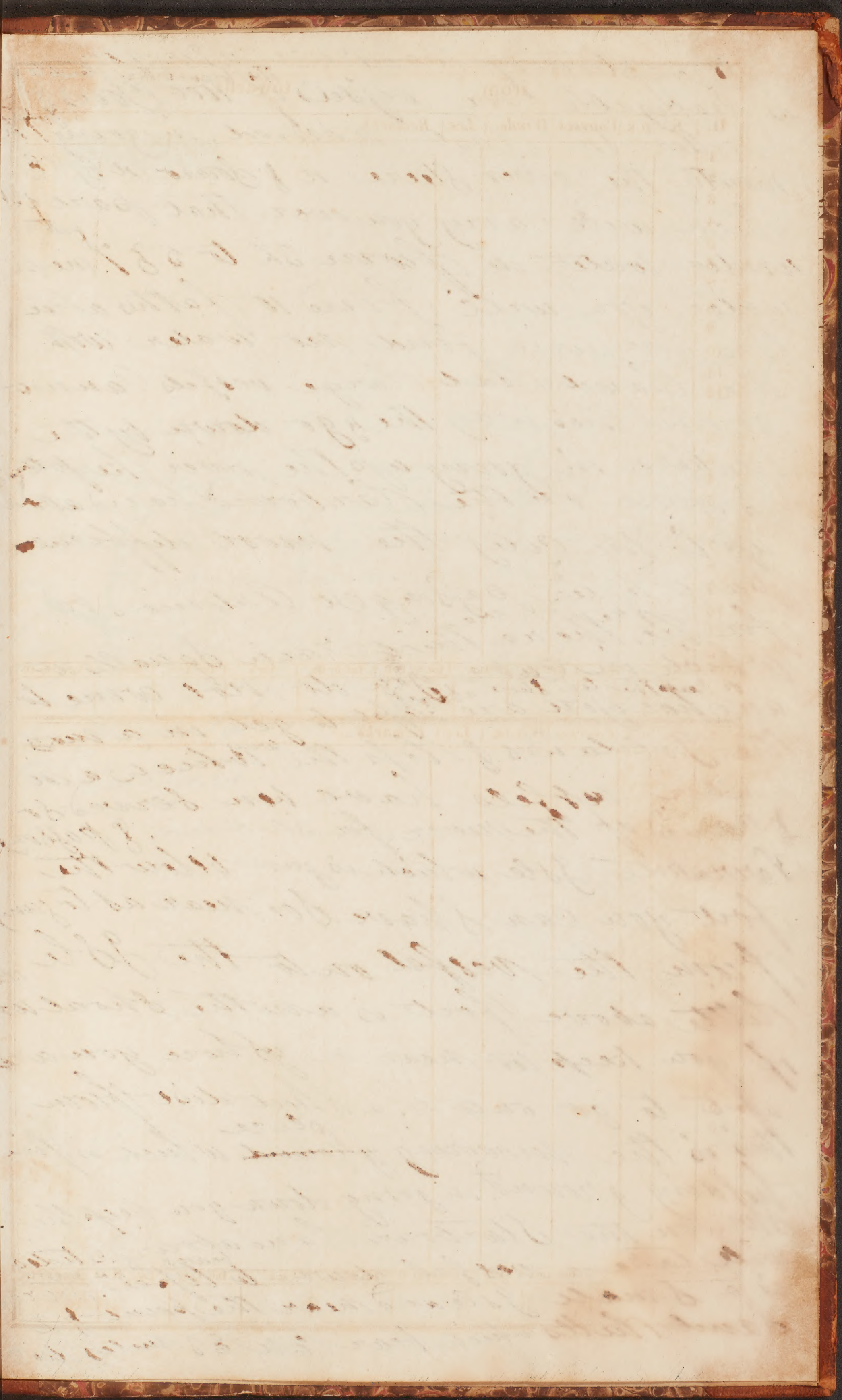
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Discription of the River Amazon
is navigable for vessels of 1000 Tons & ^{this branch that leads to P}
smaller. The last named in going ^{to the} mouth the river steers N & some N by E
which will carry you over that part of the
under water in from 3h to 587 ^{fathoms} next
water you will find 10 fathoms after
this you will find no water with
the hand lead. Large vessels cannot
go out this way they go down by the
breakers. in going up the river keep the
starboard hand ^{to the} shore on the starboard hand about
up to the city the most difficult
part after passing St Antonios Bay
for ^{there are} there thick rain squalls &
which in case you do not come to
anchor you are apt to get in a maze
the Islands & lose the ^{way} which a
number of vessels have been served so
& carried up the river for 3 or 4 days. & passing
Parrakite Isle which is just below the
fort you can have for near as to jump
from the vessel on to the Isle
little above fort is another shoal where
if you keep too near in y^e shore you are
apt to go onto it. a short distance from
this is the mooring ^{place} ground which is fine
sloping ground. in going down you keep the
shore on the starboard hand about 3 tides
will take a vessel down to ^{near} the point. there
is a small Island near the point of 2
sand hills which bear E N E 3 miles dist

4 days the



3 6234 00068511 8

The current has set 183
miles in 4 days. and as we
have had no sounder for
5 days could not ascertain
in weather it set Easterly
or westerly of North. sounder
to day and found no bottom
from this judged it to set
North. - 9th at 7^{PM} we got a
sounder Obs found it to be in
44.57 W by this Obs the current
must set N. by E.

Description of the river & mission S. Para

The river inside the breakers is navigable for
vessels of 1000 tons & smaller. The last narrow go
steering N or N by E arch will take you over
over the part under water carrying across
from 3 to 5 & 7 fathoms soon after sounding
on 10 fathoms you will yourself across them
large vessel there is not water enough
for them this way the go in and out by
the breakers

54.55
56.19
1.26

